

LITHOLOGIC LOG

MONITORING WELL No. IWC001

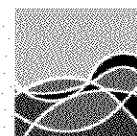
Logged By: Micheal Lewis/Z. Dickson
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 10/31/06
Date Completed: 11/2/06
Northing: 1768452.84
Easting: 6470121.09
Elevation: 53.60 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
0							8" Asphalt	
2						CL	Brown (10YR 5/3), SILTY CLAY, moist, stiff, plastic.	
4							Note: Construction debris.	
6							Note: Construction debris.	
8						ML	Brown (10YR 4/3), SILT, moist, firm, little clay, little fine-grained sand.	
10								
12								
14						SM	Dark brown (7.5YR 3/4), SANDY SILT, moist, stiff, very fine- to fine grained sand, micaceous.	
16				0.0				
18				0.0				
20								



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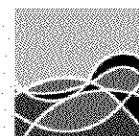
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
22						ML		
24								
26								
28				0.0			Note: First 10 foot run with core barrel. Casing at 18 feet, core barrel to 24 feet. Logged from shoe. Dark brown (7.5YR 3/4), SILT, moist, very stiff, micaceous, mottled with caliche, trace fine to very fine sand, slightly clayey.	
30						SM		
32				0.0			Light olive brown (2.5Y 5/6), SILTY SAND, slightly moist, very dense, poorly graded, very fine- to fine-grained, micaceous.	
34								
36						SP		
38				0.0			Light olive brown, SAND, dry to slightly moist, very dense, very fine- to fine-grained, poorly graded, micaceous, trace silt.	
40								



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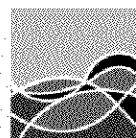
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42				0.0		SP	Light olive brown; SAND, dry to slightly moist, very dense, very fine- to fine-grained, poorly graded, micaceous, slightly silty.				
44											
46						ML	Light olive brown (2.5Y 5/3), CLAYEY SILT, moist, firm, moderately plastic.				
48				0.0							
50				1.1		SP	Light olive brown (2.5Y 5/6), SAND, moist, poorly graded, very fine-grained, little silt.				
52				1.3		ML	Light olive brown (2.5Y 4/3), SILT, moist, firm, slightly plastic, some clay.				
54				4.2			Light olive brown (2.5Y 4/3), SILT, moist, firm, with little to some very fine-grained sand, no clay.				
56				1.8			Light olive brown (2.5Y 4/3), SILT, moist, firm, slightly plastic, some clay.				
58				3.1		SM	Olive brown (2.5Y 4/3), SILTY SAND, moist, stiff, poorly graded, very fine-grained, oxidation staining in veins throughout.				
60											



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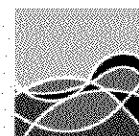
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
62				2.9		SP	Groundwater encountered approximately 61 feet. Light olive brown (2.5Y 5/6), SAND, wet to saturated, poorly graded, fine-grained.	
64				1.7		ML	Olive brown, SILT, wet, stiff, some very fine-grained sand.	
66				0.3		SP	Light olive brown (2.5Y 5/3), SAND, wet, poorly graded, fine- to very fine-grained.	
68				0.4		SM	Olive brown (2.5Y 4/3), SILTY SAND, very moist, firm, slightly plastic, little clay, heavy oxidation staining in veins.	
70				0.4		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, very fine-grained, some fine-grained.	
72				1.3		CL	Olive brown (2.5Y 4/3), CLAY, moist, hard, slightly plastic, very thin lamination/oxidation staining.	
74				7.2		SP	Dark olive brown (2.5Y 3/3), SAND, saturated, poorly graded, fine-grained to very fine-grained, little silt, micaceous.	
76				1.3		ML	Dark grayish brown (2.5Y 4/2), SILT, moist to very moist, hard, interbeds of very fine-grained sand, faint oxidation staining.	
78				1.0		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained.	
80				0.8		ML	Olive brown (2.5Y 4/4), CLAYEY SILT, moist, hard, slightly plastic, faint oxidation staining throughout. Note: Outer conductor casing set at 78.5 feet. Install bentonite pellet seal. Continue drilling with inner casing.	
						SP	Note: 3" thick SAND layer, saturated, poorly graded, fine-grained.	



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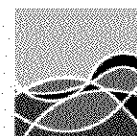
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
82				1.2		SP	Grayish brown (10YR 5/2), SAND, wet to saturated, poorly graded, very fine- to fine-grained, little silt, abundant shells.	
84				0.0		SP	Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained.	
86				0.0		ML	Olive brown (2.5Y 4/4), CLAYEY SILT, moist, hard, slightly plastic, oxidation staining in veins.	
88				0.8		CL	Olive brown (2.5Y 4/4), CLAY, moist, hard, slightly plastic, some silt.	
90				0.4		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, very fine-grained.	
92				0.0		ML	Olive brown (2.5Y 4/4), CLAYEY SILT, moist, hard, slightly plastic, oxidation staining in veins.	
94				0.3		SP	Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained, trace to little silt.	
96				0.6			Olive brown (2.5Y 4/4), SAND, wet, poorly graded, very fine-grained, little silt.	
98				0.0				
100							Light olive brown (2.5Y 5/3), SAND, wet, poorly graded, very fine-grained, little silt.	



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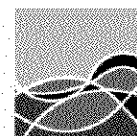
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Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
102				0.0		GW	Light olive brown (2.5Y 5/3), GRAVEL, wet, very dense, well graded, fine-grained sand matrix, fine sub-angular gravel.	4" Sch 80 PVC 0.02" Slot
				0.0		CL	Olive brown (2.5Y 4/4), CLAY, moist, very hard, slightly plastic, oxidation staining in veins.	
104				0.0		SM	Dark grayish brown (2.5Y 4/2), SILTY SAND, wet, poorly graded, very fine-grained.	
106				1.2		SP	Dark grayish brown (2.5Y 4/2), SAND, wet, poorly graded, very fine-grained.	
108				0.0		SM	Dark grayish brown (2.5Y 4/2), SILTY SAND, wet, poorly graded, very fine-grained, micaceous.	
110				0.0		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained.	
112				5.0		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained.	
114				4.4		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained.	
116				8.9		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained.	4" Sch 80 PVC 0.02" Slot
118				5.6		CL	Olive brown (2.5Y 4/3), CLAY, slightly moist, very hard, slightly plastic, oxidation staining in dark veins.	
120						ML	Olive brown (2.5Y 4/3), SILT, moist, stiff, some very fine-grained sand.	



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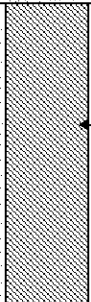
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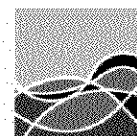
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122				1.5		ML	Olive brown (2.5Y 4/3), SILT, moist, stiff, some very fine-grained sand.	 Bentonite Chips/Cave
124				1.2				
126				4.6		SM	Olive brown (2.5Y 4/3), SILTY SAND, moist to very moist, medium dense, very fine-grained sand, oxidation staining in veins.	
128							<u>Well Detail</u> 0 to 95 4" Sch 80 PVC Blank 95 to 115 4" Sch 80 PVC 0.020 Slot 0 to 2.5 Concrete with Traffic Rated Well Box 2.5 to 88 Portland Cement w/ 5% Bentonite Grout 88 to 92 Bentonite Pellets 92 to 117 #39 Blend Sand	
130								
132								
134								
136								
138								
140								

Notes: Boring total depth 125 feet. Groundwater encountered at approximately 61 feet. Boring completed as a groundwater monitoring well.



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